|   | Index of Claims     |                      |              |                    |              |         |         |               |          |                 |       |                          |          |              | Application/Control No. |                    |           |             |              |           |          |      |          | Applicant(s)/Patent under |          |                     |                |              |          |                   |          |           |   |   |
|---|---------------------|----------------------|--------------|--------------------|--------------|---------|---------|---------------|----------|-----------------|-------|--------------------------|----------|--------------|-------------------------|--------------------|-----------|-------------|--------------|-----------|----------|------|----------|---------------------------|----------|---------------------|----------------|--------------|----------|-------------------|----------|-----------|---|---|
|   | Index of Claims     |                      |              |                    |              |         |         |               |          |                 |       |                          |          |              |                         |                    |           |             |              |           |          |      |          | Reexamination             |          |                     |                |              |          |                   |          |           |   |   |
|   |                     |                      |              |                    |              |         |         |               |          |                 |       |                          |          |              | 10/624,254<br>Examiner  |                    |           |             |              |           |          |      |          | KIM ET AL.                |          |                     |                |              |          |                   |          |           |   |   |
|   |                     |                      |              |                    |              |         |         |               |          |                 |       |                          |          |              |                         |                    |           |             |              |           |          |      |          |                           |          |                     |                |              |          |                   |          |           |   |   |
|   |                     |                      |              |                    |              |         |         |               |          |                 |       |                          |          |              |                         | Jennifer C. McNeil |           |             |              |           |          |      |          |                           | 1775     |                     |                |              |          |                   |          |           |   |   |
|   | Rejected - (Through |                      |              |                    |              |         |         |               |          |                 |       | ugh numeral)<br>ancelled |          |              |                         | 1)                 |           | N           | Non-Elect    |           |          | ted  |          | A                         | Appeal   |                     |                |              |          |                   |          |           |   |   |
|   |                     |                      | =            | Allowed            |              |         | 1       |               |          | +               |       | Restricted               |          |              |                         |                    |           |             | Interference |           |          |      | 0        | Objected                  |          |                     |                |              |          |                   |          |           |   |   |
|   |                     |                      | _            | Date               |              |         |         |               |          | ::::            |       | a I                      |          |              | _                       |                    |           | _           |              |           |          |      | J        |                           |          |                     |                |              |          | _                 |          |           |   |   |
|   | Cla                 |                      |              | <u>.</u> ]         | H.           | Da<br>T | te<br>T |               |          | $\Box$          |       | CI                       | aim<br>  | ╁            | Τ                       |                    | ГÏ        | ate         | 1            | Т         | Т        | -    | CI       | aim                       | Н        | 1                   | Τ              | Dat          | T T      | П                 | -T       | $\dashv$  |   |   |
|   | Final               | Original             | 12/3         | 119/01             | क्रीय        |         |         |               |          |                 |       | Fine                     | Original |              |                         |                    |           |             |              |           |          |      | Final    | Original                  |          |                     |                |              |          |                   |          |           |   | · |
|   |                     | 1                    |              | 2                  | 3            | +       | H       |               | -        |                 |       |                          | 51       | ╀            | ╀                       | H                  | Н         | -           | -            | +         |          | ┨    |          | 101                       | H        | +                   | +              | ╬            | -        | H                 | +        | $\dashv$  |   |   |
|   |                     | 7                    | Ĭ            | -                  |              | 土       | 口       |               |          |                 |       |                          | 52       | 上            | İ                       |                    |           | コ           | $\exists$    | コ         | $\perp$  | ]    |          | 102                       |          | 士                   | 土              | $^{\dagger}$ |          |                   | 士        | 1         |   |   |
|   |                     | 3                    | H            | 4                  | +            | +       | +       | _             | Н        | $\dashv$        |       |                          | 53<br>54 |              | ╀                       | H                  | H         | -           | +            | 4         | -        | -    |          | 103<br>104                | $\vdash$ | -                   | +              | ╀            | ╀        | $\vdash$          | +        | 4         |   |   |
|   |                     | 3                    | Н            | J                  | +            | +       | +       |               | H        |                 | ł     |                          | 55       | Ť            |                         |                    | H         | 7           |              | $\pm$     |          | 1    |          | 105                       | H        |                     | $\pm$          | +            | $\vdash$ | $\Box$            | 十        | 1         |   |   |
|   |                     | 6                    |              | Z                  | 1            |         | $\Box$  |               |          |                 |       |                          | 56       | I            |                         |                    | П         | $\sqsupset$ |              |           | $\bot$   | ]    |          | 106                       |          | $\Box$              | T              | $\bot$       | L        | $\Box$            | $\Box$   | 7         |   | , |
|   | <u> </u>            | -                    | $\mathbb{H}$ | 4                  | +            | +       | ╂┤      |               | ├        | $\dashv$        |       |                          | 57<br>58 | ╁            | ╁╌                      | $\vdash$           | Н         | -           | ┥            | +         | +        | ┨    | -        | 107<br>108                | ╂╾┨      | +                   | +              | ╁            | ╁        | +                 | +        | $\dashv$  |   |   |
|   |                     | Ð                    |              | Ż                  | 士            | 士       |         |               |          |                 |       |                          | 59       | Т            | I                       |                    |           |             | コ            |           |          |      |          | 109                       |          | $\perp$             | $\perp$        | 土            | 上        |                   | 工        |           |   |   |
|   |                     | kd:                  | #            | 딋                  | 1            | $\bot$  | 4       |               | _        | _               |       |                          | 60<br>61 |              | -                       |                    | Н         | 4           | $\dashv$     | 4         | +        | 4    | <u> </u> | 110                       | $\sqcup$ | -                   | +              | $\bot$       | ╀        |                   | -        | 4         | • |   |
|   | -                   | 11                   | +            | X                  | 7            | +       | ╁┤      |               |          | Н               |       |                          | 62       |              | ╁                       | H                  | Н         | $\dashv$    | +            | +         | +        | ┨    | $\vdash$ | 111<br>112                | Н        | 十                   | +              | +            | ╁╴       | $\vdash$          | +        | $\dashv$  |   |   |
|   |                     | 13                   |              | V                  | प            | 工       |         |               |          |                 |       |                          | 63       |              | L                       |                    |           | コ           |              |           |          | ]    |          | 113                       |          |                     |                |              |          | $\Box$            | $\Box$   | コ         |   |   |
|   | <u> </u>            | <del>-14</del><br>18 | Ħ            | =                  | 4            | +       | +       | _             | _        | Н               |       |                          | 64<br>65 |              | ╀                       | L                  | $\square$ | -           | -            | 4         |          | -    |          | 114<br>115                | Н        | $\dashv$            | +              | +            | ╁        | ╀┤                | $\dashv$ | $\dashv$  |   |   |
|   | -                   | 16                   | Н            | $\forall$          | $\dashv$     | +       | +       | -             | -        | $\dashv$        |       |                          | 66       |              | +                       | $\vdash$           | Н         | -           | ᅥ            | +         | -        | -{   | -        | 116                       | H        | $\dashv$            | +              | ╁            | +        | Н                 | $\dashv$ | $\dashv$  |   |   |
|   |                     | 17                   |              | Z                  | 1            | 工       | $\Box$  |               |          |                 |       |                          | 67       | I            |                         |                    |           | $\Box$      |              |           |          |      |          | 117                       |          |                     | 1              | 1            |          |                   |          |           |   | · |
|   | <u> </u>            | 18                   | 1            | 4                  |              | +       | -       | <u> </u>      | -        | $\dashv$        |       |                          | 68<br>69 |              | +-                      | -                  | Н         |             |              | -         |          | 4    | <u> </u> | 118<br>119                | Н        | $\dashv$            | +              | +-           | ╀        | ₽                 | -        | $\dashv$  |   |   |
| • |                     | 20                   |              | H                  | $\dashv$     | +       | +       | ┢             | $\vdash$ | $\dashv$        |       |                          | 70       | +            | ╁                       | ┢                  | Н         | $\dashv$    | ᅥ            | $\dashv$  | 十        | ┨    | -        | 120                       | H        | +                   |                | +-           | 十        | +                 |          | $\dashv$  |   |   |
|   |                     | 2                    |              | Z                  | I            | 1       |         |               |          |                 |       |                          | 71       | $\perp$      | I                       |                    |           |             |              |           |          | ]    |          | 121                       |          |                     | $\Box$         | Ţ            | I        |                   |          | 7         |   |   |
|   |                     | 22<br>23             | #            | 4                  |              | +       | +       | -             | -        | Н               |       |                          | 72<br>73 |              | ╀                       | ⊢                  | Н         |             | -            | -         | +        | -    | <u> </u> | 122<br>123                | -        |                     | +              | +            | ╀        | ╂┤                | -        | $\dashv$  |   |   |
|   | -                   | 24                   |              |                    | +            | 十       | +       | <del> -</del> | -        | $\vdash$        |       |                          | 74       | +            | ╁                       | ┢                  | H         | ᅱ           | $\dashv$     | $\dashv$  | +        | -    | -        | 124                       | $\vdash$ | -                   | +              | ╁            | +        | H                 | +        | $\dashv$  |   |   |
|   |                     | 25                   |              | V                  | V            |         |         |               |          |                 |       |                          | 75       |              |                         |                    |           |             |              |           |          |      |          | 125                       |          |                     |                | 工            | I        |                   |          |           |   |   |
|   | ļ                   | <del>-28</del> -     |              | 7                  |              | +       | +       | Ŀ             | Ŀ        | $\vdash$        |       |                          | 76<br>77 | +            | ╀                       | ┡                  | ┦         | 4           | -            | -         | -        | -    | <u> </u> | 126<br>127                | $\vdash$ | $\dashv$            | +              | +            | ╀        | -                 | +        | 4         |   |   |
|   | $\vdash$            | 28                   | Н            | J                  | 4            | ╁       | +       | ┢             | ┝        | Н               |       |                          | 78       |              | ╁                       | $\vdash$           | $\vdash$  | -           | 1            | -+        | +        | -    |          | 128                       | Н        | $\dashv$            | 十              | 十            | 十        | H                 | +        | ┪         |   |   |
|   |                     | -20                  | Ш            | <b>~</b> 4         |              |         |         |               |          |                 |       |                          | 79       | $\mathbf{I}$ | I                       |                    |           |             |              |           |          |      |          | 129                       |          |                     |                | $\perp$      | L        | $\Box$            |          |           |   |   |
|   |                     | 30<br>31             |              | $Z_{j}$            | 7            | +       | ╀       | _             | _        | Н               |       |                          | 80<br>81 |              | ╁                       | L                  | $\vdash$  | $\dashv$    | $\dashv$     | 4         |          | -    | <u> </u> | 130<br>131                | ┦        | -                   |                | +            | +        | $\vdash$          | $\dashv$ | 4         |   |   |
| • | <b></b>             | 32                   | H            | $\underline{\vee}$ | <del>-</del> | ╁       | +       | -             | -        | Н               |       |                          | 82       |              | ╁                       | ╁╌                 | H         | -           | -            | +         | +        | -    |          | 132                       | Н        | +                   | +              | ╁            | +-       | $\vdash$          | +        | -         | • |   |
|   |                     | 33                   |              | N.                 | 1            | 工       |         |               |          |                 |       |                          | 83       |              |                         |                    |           |             |              |           |          |      |          | 133                       |          |                     |                |              |          |                   |          |           |   |   |
|   | <b> </b> -          | 34                   | Ļ            | 4                  | 4            | +       | ╀┤      |               | _        | Н               |       |                          | 84<br>85 | _            | ╄                       | <u> </u>           | $\vdash$  | -           | $\dashv$     | 4         | +        | -    |          | 134                       | $\vdash$ | -                   | +              | +-           | ╀        | H                 | -        | $\dashv$  |   | • |
|   | _                   | 36                   | \$           | V                  | 1            | +       | H       | _             | -        | $\dashv$        |       |                          | 86       |              | ╁                       | <del> </del> -     | $\vdash$  | ᅥ           | +            | 1         | ┰        | -    | -        | 136                       | Н        | $\dashv$            | $\top$         | ╅            | ╁╌       | $\dagger \exists$ | $\vdash$ | ┪         |   |   |
|   |                     | 37                   |              | 1                  | 1            | 工       | П       |               |          |                 |       |                          | 87       |              | I                       |                    |           |             | $\Box$       |           | 1        |      |          | 137                       |          | $\Box$              | $\blacksquare$ | $\perp$      |          | $\Box$            |          | $\exists$ |   |   |
|   |                     | 38<br>39             | -            | 쉬                  | 1            | +       | ╁┤      | <u> </u>      | -        | Н               |       |                          | 88<br>89 |              | ╀                       | -                  | $\vdash$  | -           | $\dashv$     | -         | +        | -    |          | 138<br>139                | $\vdash$ | $\dashv$            | +              | ╁            | ╀        | ╂╌                | +        | $\dashv$  |   |   |
|   | -                   | 40                   |              |                    | V            | ╁       | +-      | ┢╾            | -        | $\dashv$        |       |                          | 90       |              | 十                       | 一                  | Н         | -           | $\dashv$     | 7         | $\dashv$ | -    | -        | 140                       | $\vdash$ | +                   | 十              | 十            | +        | Н                 | $\vdash$ | $\dashv$  |   | • |
|   |                     | +                    |              | $\mathbf{z}'$      | $\Box$       | I       |         |               |          |                 |       |                          | 91       |              | I                       |                    |           |             |              | $\Box$    |          | ]    |          | 141                       |          |                     | 7              | $\perp$      |          |                   | $\Box$   |           |   |   |
|   | <del> </del>        | 43                   |              | Ž                  | +            | +       | ╂╌      | <u> </u>      | ⊢        | $\dashv$        |       |                          | 92       |              | +                       | -                  | Н         | -           | $\dashv$     | +         | -        | -    | <u> </u> | 142                       | $\vdash$ | $\vdash \downarrow$ | -              | +            | +        | $\vdash$          | $\vdash$ | $\dashv$  |   |   |
|   |                     | 4                    |              | V                  |              | 士       |         |               |          | Н               |       |                          | 94       | $\perp$      | $\perp$                 |                    | H         | $\dashv$    |              | _         | _        | -    |          | 144                       |          | 団                   | $\perp$        | +            | T        |                   | 廿        | $\exists$ |   |   |
|   |                     | 45                   | $\Box$       | V                  | 1            | T       |         |               |          | 口               |       |                          | 95       |              | F                       |                    | П         | $\Box$      | $\Box$       | $\Box$    | 工        | ]    |          | 145                       | $\Box$   | $\Box$              | I              | Ţ            | Ţ.       | $\Box$            | $\Box$   | $\Box$    |   |   |
|   | $\vdash$            | 46                   | Н            | $\dashv$           | +            | ╁       | ╂┤      | ├-            | -        | $\vdash \vdash$ |       |                          | 96<br>97 |              | +                       | $\vdash$           | $\vdash$  |             | $\dashv$     | +         | +        | -{   | -        | 145                       | +-       | $\dashv$            | +              | +            | +        | $\vdash$          | ┝┼       | $\dashv$  | • |   |
|   |                     | 48                   |              |                    | 士            |         | $\perp$ |               |          | $\Box$          |       |                          | 98       | 1            | 士                       | 上                  |           |             |              | _         | _        | ]    |          | 148                       |          |                     | 士              | 士            |          |                   |          | ゴ         |   |   |
|   | <u> </u>            | 49<br>50             | Щ            | $\dashv$           | $\bot$       | $\bot$  | $\Box$  | L             | Ľ        | Д               |       |                          | 99       |              | $\bot$                  | F                  |           | $\Box$      | $\Box$       | $\exists$ | $\bot$   | 4    |          | 149                       |          | П                   | $\bot$         | T            | $\perp$  | $\Box$            | П        | 7         |   |   |
|   |                     | 30                   |              | _1                 | _ I          | 1       |         | 1             | l .      | <u>1_</u> 5     | ::::: |                          | 1100     | "            | 1                       | ı                  | 1 I       | - 1         |              | - 1       | - 1      | 1888 | 3        | 150                       | 1        | LI                  | - 1            | - 1          |          | 1                 | 1        | - 1       |   |   |